## PATENT APPLICATION

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| FOR                 | em Pi | O-1449                                                                                                                                                                        |                      | 10031055-1                                  |             |          |  |  |
| LIS.                | T OF  | PATENTS AND PUBLICA                                                                                                                                                           | ATIONS FOR           | APPLICANT                                   |             |          |  |  |
| API                 | ADLIF | NT'S INFORMATION DI<br>STATEMENT                                                                                                                                              |                      | Bernhard Ulrich Koelle et al.               |             |          |  |  |
|                     | (Us   | se several sheets if nece                                                                                                                                                     | essary)              | FILING DATE GROUP Herewith                  |             |          |  |  |
| REFEREN             | CE [  | ESIGNATION                                                                                                                                                                    | U.S. PATEN           | T DOCUMENTS                                 |             |          |  |  |
| EXAMINER<br>INITIAL | *     | DOCUMENT NUMBER                                                                                                                                                               | DATE                 | NAME                                        |             |          |  |  |
| DN                  | ٠     | 6,628,695                                                                                                                                                                     | Sep. 30, 2003        | Aldaz et al.                                |             |          |  |  |
| +                   | ٠     | 6,618,414                                                                                                                                                                     | Sep. 9, 2003         | Wasserbauer et al.                          | <del></del> |          |  |  |
|                     | •     | 6,534,331                                                                                                                                                                     | Mar. 18, 2003        | Liao et al.                                 |             |          |  |  |
|                     | ٠     | 6,411,638                                                                                                                                                                     | June 25, 2002        | Johnson et al.                              |             |          |  |  |
| 1/                  | •     | 6,026,111                                                                                                                                                                     | Feb. 15, 2000        | Jiang et al.                                |             |          |  |  |
| -                   | ٠     | 5,867,516                                                                                                                                                                     | Feb. 2, 1999         | Corzine et al.                              |             |          |  |  |
|                     |       |                                                                                                                                                                               |                      |                                             |             |          |  |  |
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|                     |       | DOCUMENT<br>NUMBER                                                                                                                                                            | DATE                 | NAME                                        | YES         | NO NO    |  |  |
| 1                   |       |                                                                                                                                                                               |                      |                                             | <u> </u>    | <u> </u> |  |  |
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|                     |       | OTHER REFERENCE                                                                                                                                                               | CES (including Au    | thor, Title, Date, Pertinent Pages, etc.)   |             |          |  |  |
| PN                  | •     | US Patent Application                                                                                                                                                         | on Publication No. 2 | 2002/0150135, Naone et al. (Oct. 17, 2002). |             |          |  |  |
| PN                  |       | Unold et al., "Improving single-mode VCSEL performance by introducing a long monolithic cavity," IEEE Photonics Technology Letters, Vol. 12, No. 8, pp. 929-941, August 2000. |                      |                                             |             |          |  |  |
| pm                  |       | Deppe et al., "High spatial coherence vertical-cavity surface-emitting laser using a long monolithic cavity," Electronics Letters, Vol. 33, No. 3, pp. 211-213 Jan. 30, 1997. |                      |                                             |             |          |  |  |
| EXAMIN              | ER    |                                                                                                                                                                               |                      | DATE CONSIDERED                             |             |          |  |  |
|                     |       | 15_                                                                                                                                                                           |                      | 12/12/05                                    |             |          |  |  |

Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

## PATENT APPLICATION

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|                     |             |                                                                         |                                              |                              | ATTY, DOCKET NO.                                                                              | SERIAL NO                             | <b>)</b> . |             |  |  |
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| FOR                 | M PI        | O-1449                                                                  |                                              |                              | 10031055-1                                                                                    |                                       |            |             |  |  |
| LIST                | OF          | PATENTS AND PUBLIC                                                      | CATIONS FOR                                  |                              | APPLICANT                                                                                     | <u> </u>                              |            |             |  |  |
| APF                 | LICA        | NT'S INFORMATION (<br>STATEMEN                                          |                                              |                              | Bernhard Ulrich Koelle et al.                                                                 |                                       |            |             |  |  |
|                     | // 1-       | se several sheets if nec                                                |                                              |                              | FILING DATE                                                                                   | GROUP                                 | -          | •           |  |  |
|                     | (03         | e several sheets if het                                                 | essary)                                      | ļ_                           | Herewith                                                                                      |                                       |            | <del></del> |  |  |
| REFEREN             | CEC         | DESIGNATION                                                             | U.S. PAT                                     | ENT C                        | DOCUMENTS                                                                                     |                                       |            | <u> </u>    |  |  |
| EXAMINER<br>INITIAL | *           | DOCUMENT NUMBER                                                         | DATE                                         |                              | NAME                                                                                          |                                       |            |             |  |  |
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|                     |             |                                                                         | FORE                                         | IGN F                        | PATENT DOCUMENTS                                                                              |                                       |            |             |  |  |
|                     | DOCUMENT    |                                                                         | DATE                                         |                              | NAME                                                                                          |                                       | TRAN       | SLATIC      |  |  |
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|                     |             |                                                                         | ICES (including                              | Autho                        | r. Title. Date. Pertinent Pa                                                                  | ges, etc.)                            |            |             |  |  |
|                     |             | OTHER REFEREN                                                           |                                              |                              | r, Title, Date, Pertinent Pagoroton implanted vertical-cavi                                   |                                       | ting la    | sers,"      |  |  |
| PN                  |             | OTHER REFEREN                                                           |                                              |                              | r, Title, Date, Pertinent Page<br>proton implanted vertical-cavi<br>A, L372-L374, April 1998. |                                       | ting las   | sers,"      |  |  |
| pN                  |             | OTHER REFEREN                                                           |                                              |                              |                                                                                               |                                       | ting las   | sers,"      |  |  |
| PN                  |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys                     | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 | proton implanted vertical-cavi<br>A, L372-L374, April 1998.                                   | ty surface-emit                       |            | sers,"      |  |  |
| PN Pau              |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys                     | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 |                                                                                               | ty surface-emit                       |            | sers,"      |  |  |
| PN<br>PN            |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys                     | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 | proton implanted vertical-cavi<br>A, L372-L374, April 1998.                                   | ty surface-emit                       |            | sers,"      |  |  |
| PN PN               |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys                     | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 | proton implanted vertical-cavi<br>A, L372-L374, April 1998.                                   | ty surface-emit                       |            | sers,"      |  |  |
| PN<br>PN            |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys Kardosh et al., "Vo | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 | proton implanted vertical-cavi<br>A, L372-L374, April 1998.                                   | ty surface-emit                       |            | sers,"      |  |  |
| PN<br>PN            |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys Kardosh et al., "Vo | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 | proton implanted vertical-cavi<br>A, L372-L374, April 1998.                                   | ty surface-emit                       |            | sers,"      |  |  |
| PN                  |             | OTHER REFEREN Ha et al., "Determ Jpn. J. Appl. Phys Kardosh et al., "Vo | ination of cavity lo<br>s., Vol. 37, Part 2, | oss in <sub>I</sub><br>No. 4 | proton implanted vertical-cavi<br>A, L372-L374, April 1998.                                   | ty surface-emit                       |            | sers,*      |  |  |

<sup>\*</sup> Copies of these ref rences are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)